

To: Travers, David[Travers.David@epa.gov]
From: Wisniewski, Patti-Kay
Sent: Wed 1/15/2014 7:50:04 PM
Subject: RE: spill timeline

Thanks, Very helpful. With only Vicky and I working this, we've had no time to document, etc.

I would like to do that at some point.

Patti Kay

From: Travers, David
Sent: Wednesday, January 15, 2014 2:40 PM
To: Wisniewski, Patti-Kay
Subject: FW: spill timeline

Forgot to cc: you.

From: Travers, David
Sent: Wednesday, January 15, 2014 2:28 PM
To: binetti, victoria
Subject: spill timeline

Vicki, we compiled a timeline for the incident along with comments purely for internal purposes, but here it is in case it may be useful:

Date & Time*	Time since start (hr)	Event	Comment
1/9/14 8:15	0.00	Complaints of odor near Freedom Industries facility	<div>Ex. 5 - Deliberative</div>
1/9/14 10:40	2.42	Freedom Industries discovers that MCHM is leaking	
1/9/14 11:15	3.00	State environmental officials pinpoint the source of the leak	
1/9/14 11:45	3.50	Freedom Industries notifies WV American Water. Plant adds	

		carbon to filters but continues to treat water.	Ex. 5 - Deliberative
1/9/14 12:05	3.83	Freedom Industries reports leak to the State	
1/9/14 16:20	8.08	MCHM detected in finished water	
1/9/14 18:00	9.75	Do not use notice was issued	Ex. 5 - Deliberative
1/10/14 8:00	23.75	Federal disaster declaration. FEMA and the National Guard brought in to distribute water.	
1/11/14 8:00	47.75	West Virginia America Water and the State reported that they had a method to detect the contaminant in water. ATSDR/CDC release an official statement that no adverse health effects are expected at concentrations below 1.0 mg/L.	Ex. 5 - Deliberative
1/12/14 8:00	71.75	A total of 10 people admitted to the hospital, and 169 treated and released for symptoms that appeared to be linked to MCHM exposures.	Ex. 5 - Deliberative
1/13/14 12:30	100.25	Officials report that levels are below 1.0 mg/L and begin lifting the use restriction. Use restrictions were lifted by zones, starting at the zone closest to the plant. The utility posted an interactive map showing which zip codes were cleared. They also issued instructions to building owners with instructions about how to flush their plumbing systems. They cleared hospitals before lifting the use restriction in the surrounding area.	Ex. 5 - Deliberative
1/13/14 16:00	103.75	Leading edge of the chemical plume reached the confluence of the Kanawha and Ohio Rivers. ORSANC is modeling the flow of the plume and conducting sampling on the Ohio. (www.orsanco.org)	
1/15/14 8:00	143.75	The chemical plume reached Cincinnati and is expected to take 24 hours to pass by.	Ex. 5 - Deliberative
GENERAL NOTE: Aside from FEMA, the National Guard, and ATSDR, federal partners were generally kept at reduced to receiving data reports showing that concentrations were below 1.0 mg/L. EPA did receive some data.			
*: Some times are estimated.			

David Travers

Director, Water Security Division

USEPA Office of Ground Water and Drinking Water

ph: 202-564-4638
